ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. NO. PROJECT NAME 02AH17 Cheshire Monitoring Study SAMPLERS: (Print Name and Sign) Mike Murphy Mike Murphy Mike Murphy				NO.	a l y		Activity Code: 12345-90101A AIR 2002 00 13			
STA. NO.	DATE	TIME	CO	GRAB		ON LOCATION	CON- TAINERS	A ⁿ		TAG NUMBERS
DO1	10/28	00:00	7		GHS		2			5-340091 1 to 2
SO1	10/28	00:00	Х		GHS		2			5-340090 1 to 2
SO2	10/28	00:00	Х		RVHS		2			5-340092 1 to 2
SO3	10/28	00:00	Х		ADDAVILLE	3C 1-36-31-11-	2			5-340093 1 to 2
										Guiding Hands school Serial # 3012, AUG PSIG = 19.2 inches of the Serial # 3013, AUG PSIG = 19.7 inches of Hace RUHS Serial # 3009, AUG PSIG = 20.3 inches the Addouble Serial # 3011, AUG PSIG = 19.5 inches of the
Relinquish Relinquish	(Sed by: (S	Signature	e)	1/	Date / Time -02-01 /3:27 Date / Time Date / Time	William S	gnature) gnature) atory by: 5-140022	Date / Tim	ne 7:05	Ship To: ATTN: Airbill Number UPS #12 401 199 01 40385944 Chain of Custody Seal Numbers

	20013 ARRI	··· (3)5 · · · / 0	100	01019 15 DATE: 12/4	
Sampler Mike Murphy					
Cooler ID 02AH171	Page 5-14002	22		11(0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	X(Adversor 22.5 Avents (1977)
Sample ld: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH17DO1 DO1	28/10/2001 00:00:00	◯ Grab Com	GHS	2	5-340091 1 to 3
Bottle No. 1	Parameter Metal analysis by ICP				
Bottle No. 2	Parameter PM10				
Sample Id: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH17SO1 SO1	28/10/2001 00:00:00	◯ Grab Com	GHS	2	5-340090 1 to 2
Bottle No. 1	Parameter Metal analysis by ICP				
Bottle No. 2	Parameter PM10		8		
Sample ld: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH17SO2 SO2	28/10/2001 00:00:00	Grab Com	RVHS	2	5-340092 1 to 2
Bottle No. 1	Parameter Metal analysis by ICP				
Bottle No. 2	Parameter				
Sample ld: Station	PM10 Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH17SO3 SO3	28/10/2001 00:00:00	○ Grab Com	ADDAVILLE	2	5-340093 1 to 2
Bottle No. 1	Parameter Metal analysis by ICP				
Bottle No. 2	Parameter		0		

FROM:

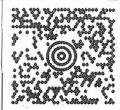
2 LBS 1 OF 1

SOUTHEAST DISTRICT OFFICE (740) 385-8501 OHIO EPA 2195 E. FRONT STREET LOGAN OH 43138-8637

SHIP TO:

WILLIAM SARGENT JR.
USEPA CENTRAL REGIONAL LABORATORY
10 FLOOR
536 SOUTH CLARK STREET
CHICAGO IL 60605





L 606 9-08

UPS NEXT DAY AIR

TRACKING #: 1Z 401 199 01 4038 5944



BILLING: P/P

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CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 20020013 Cheshire Monitoring
Metals

- Chain-of-Custody
- Analysis Request Form(s)*
- ☐ Sample Tags
- Transmittal Report w/signatures of the following
 - Analyst
 - Peer reviewer
 - Data Management Coordinator
- * Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: Sylua Ariffin 11-15-0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

NOV 1 5 2001

Subject:

Review of Region 5 Data for Cheshire Monitoring Study

From:

John V. Morris, Chemist

Region 5 Central Regional Laboratory

To:

Attached are the results for: Cheshire Monitoring Study

CRL data set number: 20020013

Samples analyzed for: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel and Selenium

Results are reported for sample designations: 2002AH17S01, 2002AH17D01, 2002AH17S02 and 2002AH17S03

NOV/1	5 /2	nni
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5 Tarana - 17 Tara			2001
Data Management C	Coordinator and Date Received	A STATE OF THE STA	may a face is a facility and a face of cold of the col
Date Transmitted: _	NOV 1 5 2001	Tr.	12
	EPA Project Manager/Officer of CRL Sample Coordinator at 3-1	-	faction Survey,
Please sign and date	this form below and return it wi	ith any comments to:	
	Sylvia Griffin Data Management Coordinato Region 5 Central Regional La ML-10C		*
Received by and Da	te /		
Comments:	8		

Date: 14 November 2001

Analyst: John V. Morris

Sample Batch Number: 20020009, 20020012 & 20020013

Facility Name: Cheshire Monitoring Study

Analyte: ICP Metals

Narrative for the Analysis of Metals in Air Filters in Batches 20020009, 20020012 & 20020013

On 26 October 2001, two air filters were received at CRL for analysis for metals. These samples were collected on 16 October 2001. On 6 November 2001, two sets of four air filters were received at CRL for analysis for metals. These samples were collected on 22 October 2001 and 28 October 2001. The sample descriptions are:

Batch ID	Sample ID	Serial No.	Station ID
20020009	2002AH15S02	G1006674	RVHS
	2002AH15S03	G1006675	ADDAVILLE
20020012	2002AH16S01	G1006670	GHS
	2002AH16D01	G1006672	GHS
	2002AH16S02	G1006664	RVHS
	2002AH16S03	G1006662	ADDAVILLE
20020013	2002AH17S01	G1006668	GHS
	2002AH17D01	G1006666	GHS
	2002AH17S02	G1006658	RVHS
	2002AH17S03	G1006660	ADDAVILLE

The analysis was limited to the thirteen metals listed on page 15 of the QAPP. In a telephone conversation, Mike Murphy of OEPA explained that the GHS monitors were affected by a power outage on 16 October.

The samples were prepared on 8 November 2001. Method Metals_006, a hot block adaptation of the beaker digestion given in 40 CFR Part 50, Appendix G, was used for the digestion. The digestion log number was 1328. There are no holding times for the air program.

Only one filter blank was prepared because no examples of the lot currently in use were available. Because we do not have blanks from this lot, the same blank subtraction criteria as for the first several batches were used.. The previous blank data was used for blank subtraction, only applying blank subtraction to the elements barium, chromium, iron, magnesium and nickel. All other elements reported had filter blank results well below the detection limits of the respective

Date: 14 November 2001

Analyst: John V. Morris

Sample Batch Number: 20020009, 20020012 & 20020013

Facility Name: Cheshire Monitoring Study

Analyte: ICP Metals

analytes. For the five above named elements, the average filter blank from the measurements performed alongside earlier batches from this study and data collected on filter blanks prior to the begin of field collection, was subtracted from the measured results. This was done as described in section 11.2 of the CRL SOP Metals_006 to remove the contribution to the result from the glass fiber filter itself. The reporting limits used for those five elements were derived from ten times the standard deviation of the data used to arrive at the average blank.

The analysis was performed on 9 November 2001 using method Metals_003, using the Perkin-Elmer 3300DV ICP. The yttrium internal standard tubing came apart twice during the run. The analysis was restarted from the last analysis with valid intensity readings for yttrium. The second time this happened, the yttrium intensities stabilized at a somewhat lower value. This probably contributed to an elevation of the calculated concentrations for a number of analytes.

For the thirteen metals reported for this study, all instrument check standards (LCM1, LCM2, Hi AQC) were in control, with the exception of the last two LCM1 results for selenium. These were just high (111.7% and 110.2%), so only the two values above reporting limit (2002AH17S01 and 2002AH17D01) were flagged with a "J" for possible high bias. The blanks showed a few out-of-control audits, but most were not of any consequence to the data. Specifically, beryllium, cadmium, iron and magnesium were either greater than or more negative than the MDL for one or more of the instrument blanks (LCB) straddling the field samples. None of this bias, if compensated for, would result in a reportable concentration for beryllium, or would be more than a percent or two change for the others, except for the negative response for cadmium on the final instrument blank. If that were taken into account, the results for samples 2002AH16S02 could be a false negative. For that reason, this result is given a "J" flag as estimated. The first instrument blank was high (above MDL) for iron, lead and magnesium. These had no effect on the data. The digestion blank (LRB) was high for beryllium, cobalt, iron, magnesium and selenium, and low for arsenic and cadmium, again with no effect, except for the cadmium, as mentioned above.

The report level check (RLC) was within 80-120% recovery for most of the 13 elements. Iron and magnesium were outside these limits by almost exactly the amount the first instrument blank was off. The other instrument checks for these elements were all in control, and the data for these two elements were far above the reporting limits, at least before filter blank subtraction. The duplicate filter digestion was within $\pm 20\%$ for the relative percent difference (RPD) or within \pm the MDL for the difference, with the exception of cadmium, with an absolute difference in the duplicate just greater than the MDL when converted to $\mu g/filter$ in the duplicate of 2002AH16S01. Cadmium is given a "J" flag for the batch due to imprecision, in addition to the problem with the false negative mentioned above. Barium had an RPD of 33% for the duplicate

Date: 14 November 2001

Analyst: John V. Morris

Sample Batch Number: 20020009, 2002 0012 & 20020013

Facility Name: Cheshire Monitoring Study

Analyte: ICP Metals

of sample 2002AH15S03, but all results, after blank subtraction, were less than the reporting limit, so the data was not flagged.

Four digests, that fer sample 2002AH16S01 and its duplicate, and for 2002AH17D01 and its duplicate, were greater than the calibration standard for copper. The high value for copper in the S01 sample for each set has been planned for as a normal part of the analysis and had been inserted into the run as part of the normal run, and the copper data is taken from these dilutions. In this case, for batch 20020013, the D01 sample, duplicated in the digestion, was the one with high copper. Sample 2002AH17D01 and its duplicate were inserted into the run, but the name for the first was not changed in the .sif file from the S01 sample. Corrections were made to the saved export file.

No significant spectral interference errors are indicated in the SIC measurements for these samples

Again, as with previous batches, the co-located sample pair 2002AH16S01 and 2002AH16D01, as well as the co-located sample pair 2002AH17S01 and 2002AH17D01, results are quite different. It is unusual that the D01 member of the pair had the high copper in the samples collected on 28 October. Because that was the one chosen for digestion duplicate, this analyst knows no sample mix-up occurred in the laboratory.

All analytical results files, sample information files and reformat files for ICP analysis can be found on the R5CRL data server using the following path: h:\r5crl\vol3\metals\jvmorris\20020009 12 13\33\00dv\

The narrative, QC summary spreadsheets, sample result calculation spreadsheets and the final sample report for ICP analysis can be found on the R5CRL data server using the following path: h:\r5crl\vol3\metals\jvmorris\20020009 12 13\reports\

Central Regional Laboratory, RMD, Region 5 Customer Satisfaction Survey

The purpose of this survey is to collect information from you about your recent experience with analytical services received from the Region 5 Central Regional Laboratory (CRL). This survey is divided into 4 sections. Please fill out the information in each section as requested. Then in Section C, supply your name and contact information, and submit the form as directed at the end of the survey.

Section A -- Sample Requests

Please respond to the following questions as accurately as possible. If you have additional comments beyond the space provided, please send them to George Schupp, CRL Sample Coordinator, at ML-10C (See Form Submission).

1. What is your CRL Data Set N and followed by a 4 digit number	Number(s) [i.e., the 8-digit number beginning with the 4-digit FY er]? (Eg.:20010099)
2. How easy was it to schedule	samples?:
Easy:	Difficult:
3. If not "Easy", please provide	a brief explanation:
9	
SECTION B Analytica	l Services
Please respond to the following	questions concerning the analysis of your samples.
1. Overall, how would you rate	the CRL analytical services you received?
Bad; Poor	; Fair; Good; Excellent
2. If not "Good" or "Excellent",	, what was the problem?
3. What type of analytical servidocument review, other)?	ces did you request (eg, analysis of samples, etc.; lab audit;
4. Who performed the analytica	l service(s) (CRL EPA Staff, ESAT)?

SECTION C -- Comments and Suggestions

Please provide specific comments or suggestions for improving any of the aspects of CRL Analytical Services:

If you would like additional information on CRL Analytical Services, The CRL Board of Directors, or the Sample Request Process, please indicate below () and provide your name and mail code).

Analytical Services;	CRL Board of Directors;	Sample Requests
Name:	Mail Code:	

FORM SUBMISSION

Thank you for taking the time to answer the questions in our survey. You will receive a confirmation message from us shortly.

We will review your survey and respond to any specific concerns or problems ASAP. Your survey and others will be evaluated for trends in an effort to establish efficient support and analytical processes. The process at each stage of the analytical services we provide are critical links towards giving you the kind of timely, accurate analytical services you need. This data will also be tracked by our management and the Board of Directors so additional customer feedback can be used to plan CRL activities in the future.

Please forward this completed survey to:

CRL Sample Coordinator at Mail code: ML-10C

Please go to the following e-mail address at: <u>schupp.george@epa.gov</u> to request an electronic copy of this survey or call 312-353-1226.

CRL Data Review Qualification Codes

QUALIFIER	DESCRIPTION
В	This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.
J	This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. (<u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.)
M	This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>Method Detection Limit (MDL)</u> but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.
N	This flag applies to GC/MS TeNtatively Identified Compounds (TICs) that have a mass spectral library match.
Q	This flag applies to analyte data that are severely estimated due to quality control and/or <i>Q</i> uantitation problems, but are confirmed to be qualitatively present in the sample. No value is reported with this qualification flag.
R	This flag applies to analyte data that are <u>Rejected</u> and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>
U	This flag in used when the analyte was analyzed for but <u>Undetected</u> in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.

Sample Number:

2002AH17S01

Station ID: GHS

Sample Batch Number: 20020013

Study:

Cheshire Monitoring Study

Collection Date:

28 Oct 01

Filter SN:

G1006668

Analysis Date:

9 Nov 01

Element	3	Concentration	<u>on</u>	<u>Units</u>
Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Iron Lead Magnesium		9 95 0.6 0.6 3.14 1.2 168 454 7.78 414	U U U U U	µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter
Manganese		19.2		μg/filter
Nickel		5.73	U	µg/filter
Selenium		35.0	J	μg/filter

Jun 1 Novol

Sample Number:

2002AH17D01

Station ID: GHS

Sample Batch Number: 20020013

Cheshire Monitoring Study Study:

Collection Date:

28 Oct 01

Filter SN: G1006666

Analysis Date: 9 Nov 01

Element	Concentration	<u>Units</u>
Arsenic	9 U	μg/filter
Barium	109	µg/filter
Beryllium	0.6 U	µg/filter
Cadmium	0.6 U	μg/filter
Chromium	3.14 U	µg/filter
Cobalt	1.2 U	µg/filter
Copper	1170	µg/filter
Iron	286	µg/filter
Lead	7.74	μg/filter
Magnesium	343 U	µg/filter
Manganese	10.0	μg/filter
Nickel	5.73 U	µg/filter
Selenium	23.8 J	µg/filter

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Sample Number:

2002AH17S02

Station ID: RVHS

Sample Batch Number: 20020013

Study:

Cheshire Monitoring Study

Collection Date:

28 Oct 01

Filter SN:

G1006658

Analysis Date:

9 Nov 01

Element	Concentrati	<u>on</u>	<u>Units</u>
Arsenic	9	U	µg/filter
Barium	95	U	µg/filter
Beryllium	0.6	U	µg/filter
Cadmium	0.6	U	µg/filter
Chromium	3.14	U	µg/filter
Cobalt	1.2	U	µg/filter
Copper	76.3		µg/filter
Iron	241		µg/filter
Lead	6	U	µg/filter
Magnesium	343	U	µg/filter
Manganese	10.3		µg/filter
Nickel	5.73	U	µg/filter
Selenium	18	U	µg/filter

)UN 14NOVO1

Sample Number:

2002AH17S03

Station ID: ADDAVILLE

Sample Batch Number: 20020013

Cheshire Monitoring Study Study:

Collection Date:

28 Oct 01

Filter SN: G1006660

Analysis Date:

9 Nov 01

Concentration	<u>n</u>	<u>Units</u>
95 U 0.6 U 0.6 L 3.14 U 1.2 U 1080 468 6 U 343 U 21.8 5.73 U		µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter µg/filter
	9 L 95 L 0.6 L 3.14 L 1.2 L 1080 468 6 L 343 L 21.8 5.73 L	9 U 95 U 0.6 U 0.6 U 3.14 U 1.2 U 1080 468 6 U 343 U

Sample Number:

Filter Blank

Station ID: None

Sample Batch Number: 20020009 & 12 & 13

None

Study: Cheshire Monitoring Study

O. 12

Filter SN: G6009099

Collection Date: Analysis Date:

Element

Arsenic

Barium

Cobalt

Copper

Iron

Lead

Nickel

Selenium

Beryllium

Cadmium

Chromium

Magnesium

Manganese

9 Nov 01

ConcentrationUnits9 Uμg/filter139μg/filter0.6 Uμg/filter0.6 Uμg/filter2.62μg/filter1.2 Uμg/filter

2.62 µg/filter
1.2 U µg/filter
2.4 U µg/filter
63.8 µg/filter
6 U µg/filter
510 µg/filter
1.2 U µg/filter
1.47 µg/filter
18 U µg/filter

Jun or

CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2002 0013 Cheshire Monitoring

1	Chain-of-Custody
	CIICAII OX CUDICUJ

- Analysis Request Form(s)*
- ☐ Sample Tags
- Transmittal Report w/signatures of the following:
 - Analyst (s)
 - Data Management Coordinator

Prepared by: Lylina Juffin 11-27-0

Data Management Coordinator

^{*} Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

WOV 2 7 2001

Date:

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Francis A. Awanya, Chemist FAA

Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY**

CRL data set number: 20020013

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH17S01, 2002AH17D01, 2002AH17S02,

and 2002AH17S03.

NOV	2	9	2001
1		1	

Data Management Coordinator and Date Received
Date Transmitted: NOV 2 7/2001
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
Received by and Date
Comments:

ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. 02AH1		PROJEC Cheshire			ng Study					Activity Code:
SAMPLER	-						NO.	t	e///	901014
Mike Murp	hy M	Ke M	UY	ohy	Mile M	lurph		a ¹ /		/// AIR 20020013
STA. NO.	DATE	Ke M	COMP	GRAB	STATI	ON LOCATION	CON- TAINERS	An A		TAG NUMBERS
DO1	10/28	00:00			GHS	71	2			5-340091 1 to 2
SO1	10/28	00:00	Х		GHS		2			5-340090 1 to 2
SO2	10/28	00:00	Х		RVHS	124	2			5-340092 1 to 2
SO3	10/28	00:00	Х		ADDAVILLE		2			5-340093 1 to 2
										Guiding Hands school
	10								Ti I	Seriel # 3012, AUG PSTg = 19.2 inches of the
							-			Serial #3013 AUG PSTg = 19.7 Notes of HZC
	11-0-2)	such part of		-			Divis
									++	RUHS
			_							Serial H. 3009, AUG PSTg = 20,3 incharted
					2027					Addaville
										Serial # 3011, AUG Psig = 19.5 inches of 400
									++	
Relinquish	lugy	/		111	Date / Time	William S	gnature)	7	,	Ship To:
Relinquish	ed by: (S	Signature)		Date / Time	Received by: (Sig	inature)			
10.00	· <u>· · · · · · · · · · · · · · · · · · </u>									ATTN:
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						William A	y the	11/6/	01/7:0	5 Chain of Custody Seal Numbers
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ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 10/28/2001 LAB ARRIVAL DATE: 11/06/2001 DUE DATE: 12/04/2001

DU NUMBER: 90101A DATA SET NUMBER: 20020013 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)		
1	2002AH17D01	GUIDING HANDS SCHOOL	0.0220		
2	2002AH17S01	GUIDING HANDS SCHOOL	0.0222		-
3	2002AH17S02	RVHS	0.0044		
4	2002AH17S03	ADDAVILLE	0.0191		
DATE OF	F ANALYSIS	And the second s	11/13-16/2001		
ANA	ALYST		FidA	1100000-007	

Reviewed by:	8.3	Date: 11/27/01
•		

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page 1 of 1

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

Batch Number: 20020013 Facility: CHESHIRE MONITORING STUDY

Parameter: SUSPENDED PARTICLES CRL SOP: AIG 047

Package Overview:	YES T	NO
Raw Data Package Complete?		9.
Results Reported Correctly?	i	
Special Requests Done?	NIA	1
Calculations Checked?	1	
Calibration Not Exceeded?	NIA	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	N/A	
Quality Control:		
Holding Times Met?	N/A	
Preservation Checked?	N/A	
Proper Digestion Verified?	NIA	
Initial Instrument Performance Checks Verified?	V	
Calibration Verification Checked?	NIA	:
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	N/A	·
Matrix QC Checked?	NIA	
Digestion Blanks Checked?	N/A	
Spiked Blank Checked?	NIA	
LCS (if applicable) Checked?	N/A	
●CS (if applicable) Checked?	NIA	
Final Check		
Technical Review Done?		
Narrative Complete?	V	

Analyst: For	Peer Reviewer:
Date: 11/26/20	Date: 11/27/01
	Comments Attached? (Y/N)

41111

Data Set Number:	20020013	Parameter:	Suspended Particles
Facility Name:	_CHESHIRE MONITOR.	ING STUDY	
Study Name:	CHESHIRE MONITOR	ING STUDY	·
Date of Narrative:	11/26/2001	Analyst:	<u>FAA</u>
		Signature	: <u>Fitt</u>

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on November 6, 2001. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280041	2002AH17D01	5-340091-2
Q6280039	2002AH17S01	5-340090-2
Q6280040	2002AH17S02	5-340092-2
Q6280042	2002AH17S03	5-340093-2

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 11/13/2001 and was completed on 11/16/2001. All exposed filters were in good conditions.

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

<u>SAMPLE RESULTS</u>: All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data are available.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers: 20020009, 20020012, and 20020013

Date of Analysis 11/13-16/2001

Analyst:

FAA

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences	
Actual (g)	Balanced (g)	(g)	
		Limit +/-0.0005 g	
Data set Number 2002	20009, 20020012, & 2	0020013	
1.0000	1.0000	0.0000	
2.0000	2.0000	0.0000	
5.0000	4.9999	0.0001	

QC-SUMMARY FOR EXPOSED FILTERS

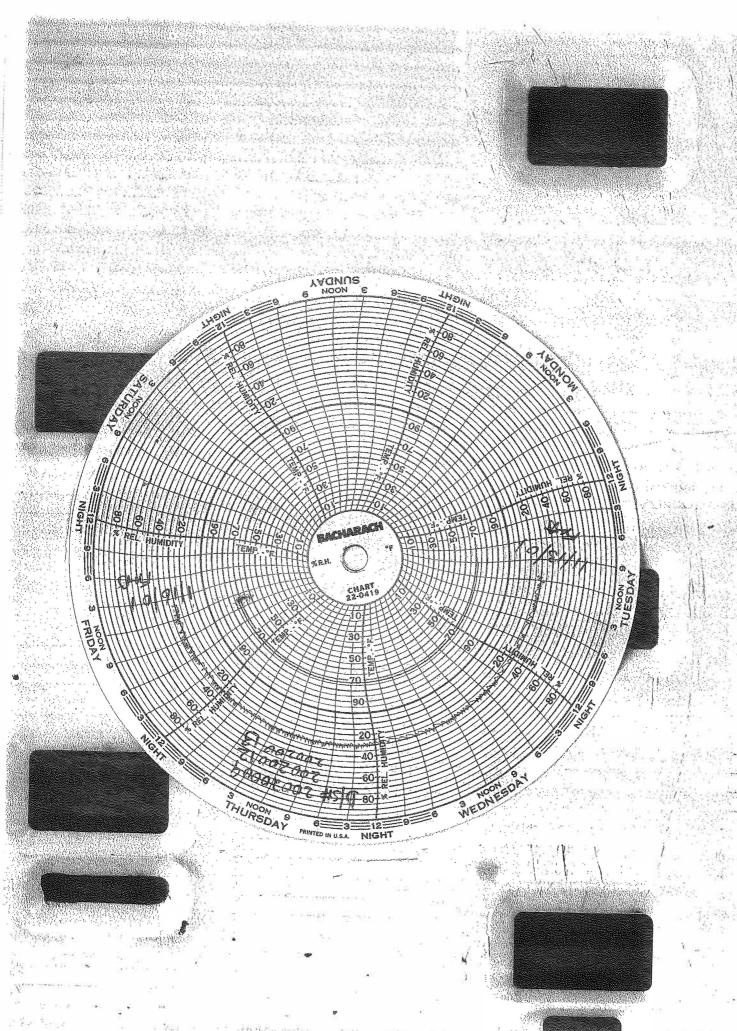
Filter ID	CRL Sample	Weighing	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
Data set Number 2002	0009			
Q6280052	2002AH15S03	11/16/01	Analyst 1	4.3474
Q6280052	2002AH15S03	11/16/01	Analyst 2	4.3476
Differences (Limit +/- 5 r	ng)			-0.0002
Data set Number 20020				
Q6280047	2002AH16S03	11/16/01	Analyst 1	4.4342
Q6280047	2002AH16S03	11/16/01	Analyst 2	4.4346
Differences (Limit +/- 5 r	mg)			-0.0004
Data set Number 2002	0013			
Q6280039	2002AH17S01	11/16/01	Analyst 1	4.3935
Q6280039	2002AH17S01	11/16/01	Analyst 2	4.3940
Differences (Limit +/- 5 r	ng)			-0.0005

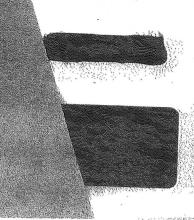
CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
	g V. sept District		3 03		201. og						
Data set N	umber 20020009		7.								
	2002AH15S01	10/16/01	Guiding Hands School	3012	19.95		0.00	4.3779	4.3870	0.0091	ERR
Q6280048	2002AH15D01	10/16/01	Guiding Hands School		19.40		0.00	4.3727	4.3813	0.0086	ERR
G6280051	2002AH15S02	10/16/01	RVHS	3009	20.20		0.00	4.3707	4.3795	0.0088	ERR
Q6280052	2002AH15S03	10/16/01	ADDAVILLE	3011	19.35		0.00	4.3396	4.3474	0.0078	ERR
Data set N	umber 20020012				_						
Q6280043	2002AH16S01	10/22/01	Guiding Hands School	3012	18.75		0.00	4.3984	4.4445	0.0461	ERR
Q6280045	2002AH16D01	10/22/01	Guiding Hands School	3013	18.45		0.00	4.3746	4.4216	0.0470	ERR
G6280046		10/22/01	RVHS	3009	19.10		0.00	4.3672	4.3994	0.0322	ERR
Q6280047	2002AH16S03	10/22/01	ADDAVILLE	3011	19.35		0.00	4.3918	4.4342	0.0424	ERR
Data set N	umber 20020013										
Q6280039	2002AH17S01	10/28/01	Guiding Hands School	3012	19.20		0.00	4.3713	4.3935	0.0222	ERR
Q6280041	2002AH17D01	10/28/01	Guiding Hands School	3013	19.70		0.00	4.3753	4.3973	0.0220	ERR
G6280040	2002AH17S02	10/28/01	RVHS	3009	20.30		0.00	4.3934	4.3978	0.0044	ERR
	2002AH17S03	10/28/01	ADDAVILLE	3011	19.50		0.00	4.3560	4.3751	0.0191	ERR

0.1000	0.1000
	0.5000
2.0000	2.0000
5.0000	5.0000
1,0000 (500 + 200+200+ 400)	1.0000
2.0000	2.0000
5.0000	4.9999
	J. 0000 (500 + 200+200+ 100) 2.0000

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7	Q6280058	4.3739	4.4361	4.430	4:43/8/08	4.4128
esiAn	96280057	4.3783	4.4400	4.4301	44232	4.4209
	96280056		1	4.3606	3/07	
7	Q62800 55	4.3613	Į.	4.3789		
	Q6280054		3	4.3919	4.3914 8.8	
	96280053			4.3771		
	Q 6280052			4.3474	4.34768	
	0.6280051		4.3709	4.3795		- 9 57 5 5 5 7
He	96280050			4.3870		
7.5	Q6280048	4.3727		4.3813		
Van	Q6280047		4.3915	4.4342	4.4346°8	
ne	Q6280046		The state of the s	4.3994		
	Q628 0045	4.3746		4.4216		
1 (1 mm) (1 mm)	Q6280043		1.10	4.4345		
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	96280040	4.3934		4.3978		
red	Q6280039	4.3713		4.3935	4.3940 8	
ide.	06280038	4.3721				*
-steam	06280037	4.3934			218 . 17	
in	Q6280036	4.3718	4.3712	6		
. e	96280035	4.3789		The second secon	The state of the s	
	Q6280034	4.3436	The state of the s	a de la grandia de la granda de	A CONTROL OF THE CONTROL OF T	
,	96280033	4.3729		and the second s	La.	
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Sampler Mills Muser 11-2-0 Date

Preservative None Sample ID 02AH17DO1

20020013 Parameters PM10

US EPA Region 5 Field Sample 5-340091-2



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US EPA Region 5 Field Sample

5-340090-2

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		US EPA Region 5 Field Sam 5-340092-2 Parameters PM10 2002-007 Preservative None Sample ID 02AH17S02 Sampler M. Muyu Date 11-20	3 SMMDBD X	

S 2000 (HEATER 10/81)

200200	13			
Preservative None	-0	M	MD	B
Sample ID 02AH17SO3	X			
Sampler Mile Mari	NY.			
Date 11-02-01				

US EPA Region 5 Field Sample

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WE RECORDER RESP. 175 dS.

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ACTUAL

COMMENTS

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